

PROJECT DESCRIPTION
GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF A EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 313 (FEDERALSBURG HIGHWAY) AND MD 318 (PRESTON RD)/ MD 315 (BLOOMINGDALE AVE) IN CAROLINE COUNTY.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A FULLY ACTUATED MODE USING 4 NEMA PHASES. A NEW 2 PLY STEEL STRAIN POLE SHALL BE INSTALLED IN THE NORTHEAST QUADRANT OF THE INTERSECTION. A NEW 3/8 IN. SPAN WIRE SHALL BE INSTALLED FOR THE NORTH AND EAST BOUND SIGNAL DISPLAYS OF THE INTERSECTION. ALL EXISTING YELLOW FACE SIGNALS HEADS SHALL BE REMOVED AND REPLACED WITH NEW LED BLACK FACE SIGNAL HEADS.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. ROBERT L. KIEL, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 810-3240
MR. WM NORRIS EMBERT, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 810-3270
MR. TERRY D. WRIGHT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 810-3250
MR. BARRY CLOTHIER, UTILITY ENGINEER
PHONE: (410) 810-3275
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD PLATES FOR TRAFFIC CONTROL.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

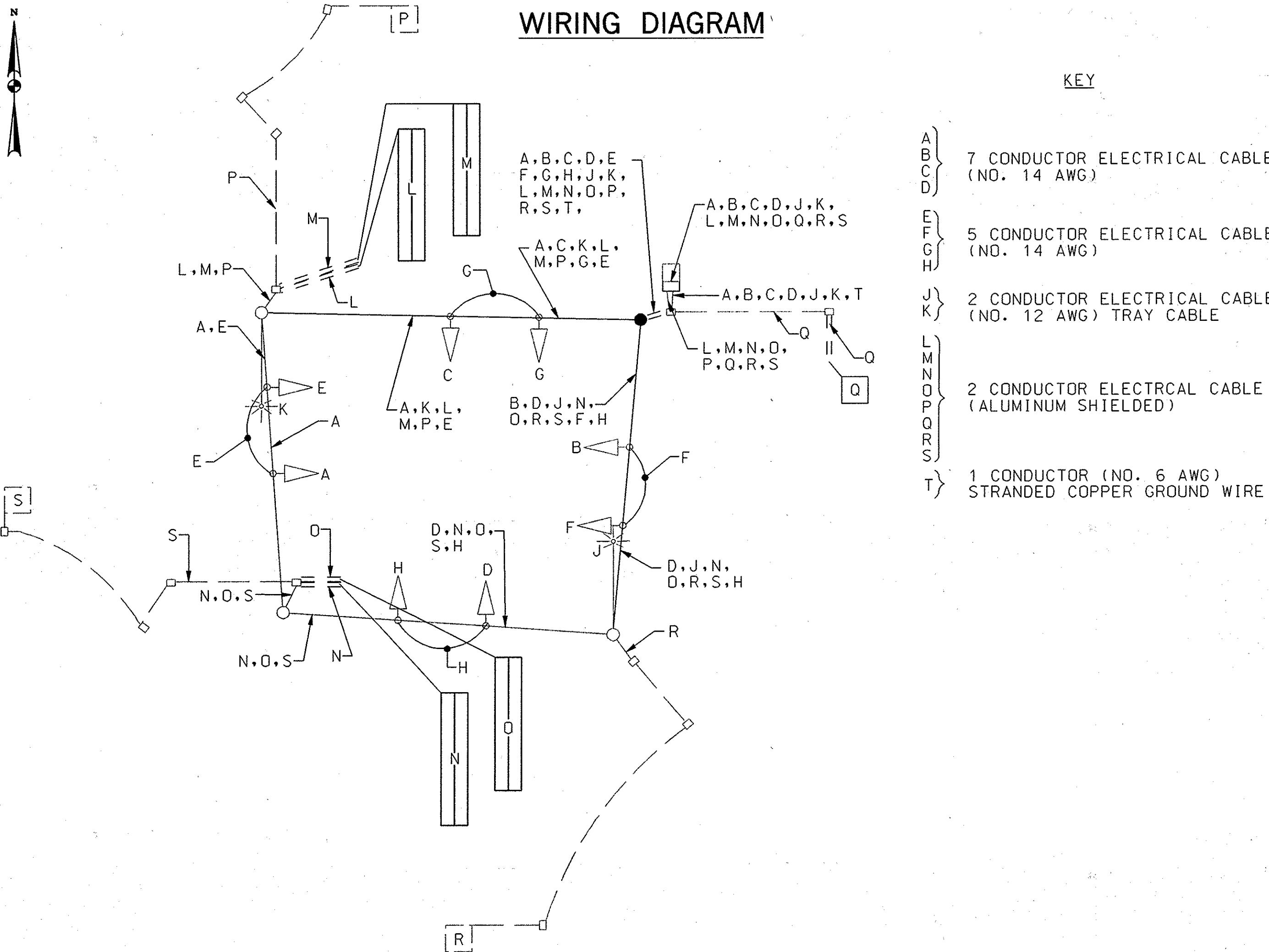
CATEGORY ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9002	NEMA LOAD SWITCH	EA	1
9011	32' X 14 " STRAIN POLE (2 PLY)	EA	1

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
2002	TEST PIT EXCAVATION	CY	1
8001	12 INCH LED SIGNAL HEAD SECTION R Y G	EA	24
8013	INSTALL STEEL STRAIN POLE (TWO PLY)	EA	1
8022	REMOVE AND DISPOSE OF EXISTING EQUIPMENT	LS	1
8034	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED	LF	50
8040	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	20
8052	ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED	LF	2745
8055	ELECTRICAL CABLE - 5 CONDUCTOR NO. 14 AWG	LF	610
8056	ELECTRICAL CABLE - 7 CONDUCTOR NO. 14 AWG	LF	485
8057	ELECTRICAL CABLE - 2 CONDUCTOR NO. 12 AWG TRAY CABLE	LF	265
8058	LOOP WIRE ENCASED IN 1 IN. FLEX TUBING FOR LOOP DETECTOR SIGNAL	LF	1875
8059	SAW CUT FOR SIGNAL LOOP DETECTOR	LF	660
8062	STEEL SPAN WIRE - 3/8 IN. DIAMETER	LF	175
NEG.	1 IN. GALVANIZED STEEL CONDUIT	LF	70
NEG.	REMOVE AND RELOCATE EXISTING EQUIPMENT	EA	4

C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	
	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	
	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	
	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	
PHASE 2 AND 6	G	G	G	G	G	G	R	R	↓ ↑
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	
PHASE 4 AND 8	R	R	R	R	R	R	G	G	← →
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	⬆ ⬇ ⬇ ⬆

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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
**MD 313 (Federalsburg Highway)
and MD 318 (Preston Rd)/
MD 315 (Bloomingdale Ave)**
FEDERALSBURG, MD.

GENERAL INFORMATION			
SCALE	1"=20'	DATE	2/18/2008
DESIGNED BY	S. SMITH	COUNTY	CAROLINE
DRAWN BY	S. SMITH	LOGMILE	05031303.39
CHECKED BY	J. WEAVER	T.I.M.S. NO.	1-289
F.A.P. NO.	NA	TOD NO.	
TS NO.	38C	DRAWING	2 OF 2
SHEET NO.		OF	